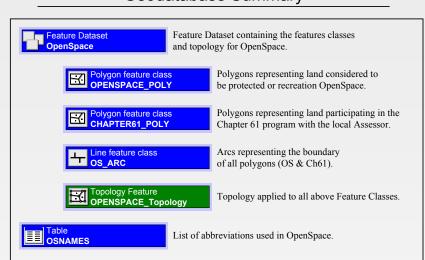
MassGIS Protected & Recreation OpenSpace Schema

Phase I. Moving OpenSpace from Librarian coverage tiles to SDE GeoDatabase. Chapter 61 land has been explicitly separated from OpenSpace, but participates in the new "rulesbased" topology. The new schema also utilizes domains for attribute validation.

Geodatabase Summary



Geodatabase:

 $\sl GISDATA.sde$

Date generated:

Friday, June 11, 2004 Versions:

SDE.DEFAULT

---Etc...

... SCOSTELLO.OS_DBA ---<EDITOR1>.OS_EDITOR ---<EDITOR2>.OS_EDITOR

Topology Feature OPENSPACE_Topology						
Feature Class	Rule	Feature Class				
CHAPTER61_POLY	Must Not Overlap					
OPENSPACE_POLY	Must Not Overlap					
OPENSPACE_POLY	Must Not Overlap With	CHAPTER61_POLY				
OPENSPACE_POLY	Boundary Must Be Covered By	OPENSPACE_ARC				
CHAPTER61_POLY	Boundary Must Be Covered By	OPENSPACE_ARC				
OPENSPACE_ARC	Must Not Overlap					
OPENSPACE_ARC	Must Be Single Part					
OPENSPACE_ARC	Must Not Have Dangles					
OPENSPACE_ARC	Must Not Self-Intersect					

Geodatabase Detail

Simple feature CHAPTER61_				Contain Contair	s M valu		/gon	Feature class of all in Chapter 61 Tax I
Field name	Data type	Allow nulls	Default value	Domain	Prec- ision	Scale I	ength	
OBJECTID	Object ID							
Shape	Geometry	Yes						
TOWN_ID	Short integer	No		Town_ID1	3			Unique code identifying the l
POLY_ID	Long integer	No			5			Unique code within a town to
LOC ID	String	Yes					15	Link to MassGIS Standard Pa
FEE_OWNER	String	No					100	Owner of the land represente
ABRV FEE OWNER	String	Yes					20	Abbreviation of FEE_OWNE
TYPE FEE OWNER	String	No		OS Type			1	Code specifying the classific
MANAGER	String	Yes					100	Manager of the property (onl
ABRV MANAGER	String	Yes					20	Abbreviation of MANAGER
TYPE MANAGER	String	Yes		OS Type			1	Code specifying the classific
OTHER 1	String	Yes					100	Entity holding INT_1 on the
ABRV OTHER 1	String	Yes					20	Abbreviation of OTHER 1 k
INT 1	String	Yes		OS Interest Type			20	Code specifying the type of i
TYPE 1	String	Yes		OS_Type			1	Code specifying the classific
SITE NAME	String	Yes					120	Name of the site (May span r
GIS ACRES	Double	No	0		10	4	100	Acreage of polygon as calcul
ASSESS ACRES	Double	No	0		10	4		Acreage of polygon accordin
DEED_ACRES	Double	No	0		10	4		Acreage of polygon as record
PROJ ID1	String	Yes	ŭ				20	ID code for parcel (state use
CAL DATE REC	Date	Yes			0	0	8	Date last alteration to deed w
PRIMARY PURP	String	No		OS Primary Purpose			1	Code for why the land was p
PUB ACCESS	String	No	N	OS Public Access			1	Code for legal (not physical)
CH61 PROG	String	No	IN	OS_Fublic_Access OS_Chapter61			1	Code for type of Chapter 61
DOR CODE	Short integer	Yes		OS DOR Class	3			Use code for Chapter 61 land
OS DEED BOOK	Long integer	Yes		O3_DOI_Class	6			The book that the deed was r
OS_DEED_BOOK OS DEED PAGE	Long integer				5			The page of OS DEED BOO
	String	Yes			J		10	Local Assessor's Map.
ASSESS_MAP	-	Yes					10	Local Assessor's Block.
ASSESS_BLOCK ASSESS LOT	String String	Yes					10	Local Assessor's Lot.
_	-	Yes					10	
ASSESS_SUBLOT	String						10	Local Assessor's Sublot.
BASE_MAP	String	Yes					50	Recompilation map name/typ
SOURCE_MAP	String	Yes		00 00000				Source map used to enter line
SOURCE_TYPE	String	Yes		OS_Source			10	Code for type of data source.
COMMENTS	String	Yes				0	255	Any further explanatory com
ATT_DATE	Date	Yes			0	0	8	Date attributes were last mod
CH61_ID	String	No					9	Unique ID for feature class (
Shape_Length	Double	Yes			0	0		
Shape_Area	Double	Yes			0	0		

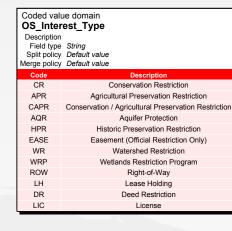
Simple feature class
OPENSPACE_POLY

Feature class of all land participating
Cl

90	in Chapter 61 Tax Relief Program
	1
ength	
	Unique code identifying the MA Town the polygon resides within.
	Unique code within a town to tag each polygon.
15	Link to MassGIS Standard Parcel data (LOC ID).
100	Owner of the land represented by the polygon (Pays taxes).
20	Abbreviation of FEE OWNER kept in OSNAMES table.
1	Code specifying the classification of FEE OWNER.
100	Manager of the property (only if different from FEE OWNER).
20	Abbreviation of MANAGER kept in OSNAMES table.
1	Code specifying the classification of MANAGER.
100	Entity holding INT 1 on the property.
20	Abbreviation of OTHER 1 kept in OSNAMES table.
20	Code specifying the type of interest held by OTHER_1.
1	Code specifying the classification of OTHER_1.
120	Name of the site (May span multiple polygons).
	Acreage of polygon as calculated by GIS.
	Acreage of polygon according to local assessor.
	Acreage of polygon as recorded in deed.
20	ID code for parcel (state use only).
8	Date last alteration to deed was recorded.
1	Code for why the land was protected/improved.
1	Code for legal (not physical) level of public access to parcel.
1	Code for type of Chapter 61 program parcel uses.
	Use code for Chapter 61 land as determined by DOR.
	The book that the deed was recorded in on CAL_DATE_REC.
	The page of OS_DEED_BOOK that the deed was recorded in.
10	Local Assessor's Map.
10	Local Assessor's Block.
10	Local Assessor's Lot.
10	Local Assessor's Sublot.
10	Recompilation map name/type.
50	Source map used to enter linework/attributes.
10	Code for type of data source.
255	Any further explanatory comment.
8	Date attributes were last modifed.
g l	Unique ID for feature class (ITOWN_IDI-IPOLY_IDI)

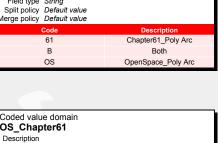
All Protected and Recreational Open Space in Massachusetts

Coded value domain OS_Arc_Code	
Description Field type Short integer Split policy Default value Merge policy Default value	
Code	Description
0	Unknown
1	Town Boundary
2	Road
3	Streambank
4	Lake Shoreline
5	Coastline
6	Railroad Line
7	Road or Railroad Right-of-Way
8	Utility Right-of-Way
9	Unsure if coincident



Rules implemented by

feature dataset topology.



Coded value domain OS_ArcSym

OS_Level_Protection	
Description Field type String Split policy Default value Merge policy Default value	
Code	Description
Р	Perpetuity
T	Term Limited
L	Limited
N	None
X	Unknown

Coded value domain					
OS_Chapter61					
Description					
Field type String					
Split policy Default value					
Merge policy Default value					
Code	Description				
Υ	Chapter 61 - Forestry				
Α	Chapter 61 - Agriculture				
F	Chapter 61 - Forestry				
В	Chapter 61 - Recreation				

Coded value domain OS_Primary_Purpose Description Field type String Split policy Default value Merge policy Default value	
Code	Description
A	Agriculture
В	Recreation and Conservation
С	Conservation
F	Flood Control
Н	Historical/Cultural
0	Other
Q	Habitat
R	Recreation
S	Scenic (Official Designation Only)
U	Underwater
W	Water Supply
X	Unknown

Coded valu		
Split policy	Long integer Default value Default value	
	Code	Description
	601	Forestry
	710	Cranberry Bog
	711	Tobacco Sod
	712	Truck Crops
	713	Field Crops
	714	Orchards
	715	Grape Vineyards
	716	Tillable Forage Cropland
	717	Productive Woodland
	718	Pasture
	719	Nurseries
	720	Related Farm Land
	722	Non-arable Farm Land
	801	Hiking
	802	Camping
	803	Nature Study
	804	Roating

808 809

812

813

Golfing Equestrian

Fishing Alpine Skiing Nordic Skiing

Picnic Areas

Gliding/Hang-gliding

Coded value do	main
Description Field type String	q
Split policy Defa	ult value
Merge policy Defa	
Code	Description
SH	Self Help
USH	Urban Self Help
LWCF	Land and Water Conservation Fund
CPA	Community Preservation Act
SURF	Strategic Urban Recreation Facilities
CP	Conservation Partnership
ALA	Aguifer Land Acquisition
ALA	

Field name	Data type	Allow nulls	Default value	Domain	Precision S	Scale Le	ength	
OBJECTID	Object ID							
Shape	Geometry	Yes						
TOWN_ID	Short integer	No		Town_ID1	3			Unique code identifying the MA Town the polygon resides within.
POLY_ID	Long integer	No			5			Unique code within a town to tag each polygon.
LOC_ID	String	Yes					15	Link to MassGIS Standard Parcel data (LOC_ID).
DCAM ID	Long integer	Yes			7			Link to DCAM tables of state-owned land (ARCID).
FEE OWNER	String	No					100	Owner of the land represented by the polygon (Pays taxes).
ABRV FEE OWNER	String	Yes					20	Abbreviation of FEE OWNER kept in OSNAMES table.
TYPE FEE OWNER	String	No		OS Type			1	Code specifying the classification of FEE OWNER.
MANAGER	String	Yes					100	Manager of the property (only if different from FEE OWNER).
ABRV MANAGER	String	Yes					20	Abbreviation of MANAGER kept in OSNAMES table.
TYPE MANAGER	String	Yes		OS_Type			1	Code specifying the classification of MANAGER.
OTHER 1	String	Yes		00,p0			100	Entity holding INT_1 on the property.
ABRV_OTHER_1	String	Yes					20	Abbreviation of OTHER_1 kept in OSNAMES table.
INT 1	String	Yes		OS Interest Type			20	Code specifying the type of interest held by OTHER 1.
TYPE 1	String	Yes		OS_Type			1	Code specifying the classification of OTHER_1.
OTHER 2	String	Yes		00_1990			100	Entity holding INT 2 on the property.
ABRV OTHER 2	String	Yes					20	Abbreviation of OTHER 2 kept in OSNAMES table.
INT 2	String	Yes		OS Interest Type			20	Code specifying the type of interest held by OTHER 2.
_	-	Yes					1	
TYPE_2	String	Yes		OS_Type			100	Code specifying the classification of the OTHER_2.
OTHER_3	String							Entity holding INT_3 on the property.
ABRV_OTHER_3	String	Yes		00 Internet Turne			20	Abbreviation of OTHER_3 kept in OSNAMES table.
INT_3	String	Yes		OS_Interest_Type			20	Code specifying the type of interest held by OTHER_3.
TYPE_3	String	Yes		OS_Type			1	Code specifying the classification of the OTHER_3.
GRANTPROG1	String	Yes		OS_Projects			20	Code specifying what grant program was used on this property.
GRANTTYPE1	String	Yes		OS_Type			1	Code specifying the classification of the GRANTPROG1.
GRANTPROG2	String	Yes		OS_Projects			20	Code specifying what grant program was used on this property.
GRANTTYPE2	String	Yes		OS_Type			1	Code specifying the classification of the GRANTPROG1.
SITE_NAME	String	Yes					120	Name of the site (May span multiple polygons).
GIS_ACRES	Double	No	0		10	4		Acreage of polygon as calculated by GIS.
ASSESS_ACRES	Double	No	0		10	4		Acreage of polygon according to local assessor.
DEED_ACRES	Double	No	0		10	4		Acreage of polygon as recorded in deed.
PROJ_ID1	String	Yes					20	ID code for parcel (state use only).
PROJ_ID2	String	Yes					20	Second ID code for parcel (state use only).
PROJ_ID3	String	Yes					20	Third ID code for parcel (state use only).
FY_FUNDING	Short integer	Yes		FiscalYear	4			Fiscal Year project was completed (state use only).
CAL_DATE_REC	Date	Yes			0	0	8	Date last alteration to deed was recorded.
BOND_ACCT	String	Yes					20	Bond account used for project/polygon (state use only).
PRIMARY_PURP	String	No	X	OS_Primary_Purpose			1	Code for why the land was protected/improved.
PUB_ACCESS	String	No	N	OS_Public_Access			1	Code for legal (not physical) level of public access to parcel.
LEV PROT	String	No	N	OS Level Protection			1	Code for the level of protection upon the parcel.
ARTICLE97	Short integer	No		BooleanSymbolValue	1			Is the parcel protected under Article 97 of MA Constit.
EOEAINVOLV	Short integer	No	0	OS EOEA Inv	1			Code for level of EOEA agency involvement.
OS DEED BOOK	Long integer				6			The book that the deed was recorded in on CAL_DATE_REC.
OS_DEED_PAGE	Long integer				5			The page of OS_DEED_BOOK that the deed was recorded in.
ASSESS MAP	String	Yes					10	Local Assessor's Map.
ASSESS BLOCK	String	Yes					10	Local Assessor's Block.
ASSESS LOT	String	Yes					10	Local Assessor's Lot.
ASSESS SUBLOT	String	Yes					10	Local Assessor's Sublot.
BASE MAP	String	Yes					10	Recompilation map name/type.
_	-						50	* **
SOURCE_MAP	String	Yes		OC Course			10	Source map used to enter linework/attributes.
SOURCE_TYPE	String	No		OS_Source				Code for type of data source.
COMMENTS	String	Yes			_		255	Any further explanatory comment.
ATT_DATE	Date	Yes			0	0	8	Date attributes were last modifed.
FEESYM	String	No					20	Code for mapping ownership.
INTSYM	String	Yes					20	Code for mapping interests.
l os id	String	No					9	Unique ID for feature class ([TOWN ID]-[POLY ID]).

Description Field type Strin Split policy Defa Merge policy Defa	ult value
Code	Description
V	Volunteer on 25K base
AS	GeoReferenced Assessor's Map
RP	GeoReferenced Plan
NP	Digital Parcels (non-standard)
P1	Digital Parcels - Level I
P2	Digital Parcels - Level II
P3	Digital Parcels - Level III
0	1/2 meter Orthoimage
00	Other Orthoimage
GS	USGS Topo
GP	GPS Survey
SV	Survey
CS	COGO from survey
CD	COGO from deed
DD	Deed Description
OM	Other Map (See Comments field)
MHD_TWNBND	Legislated Massachusetts Town Boundary
X	Unknown

Coded value domain	
OS_Public_Access	
Description	
Field type String	
Split policy Default value	
Merge policy Default value	
Code	Description
Υ	Full Public Access
N	No Public Access
L	Limited Public Access
X	Unknown

^	OTIKITOWIT
Coded value domain	
OS_Type	
Description	
Field type String	
Split policy Default value	
Merge policy Default value	
Code	Description
F	Federal
S	State
С	County
M	Municipal
В	Public Non-Profit
L	Land Trust
G	Conservation Organization
N	Private Non-Profit
Р	Private
0	Other
I	Inholding
1	State vs. State Dispute
2	State vs. Non-Profit Dispute

Coded value domain Town_ID1 Description Field type Short integer	
Split policy Default value Merge policy Default value	
Code	Description
1	Town of Abington
2	Town of Acton
3	Town of Acushnet
3 4	Town of Acushnet Town of Adams

	ed value domain _EOEA_Inv
Fie Spli	cription Id type S <i>hort integer</i> t policy <i>Default value</i> policy <i>Default value</i>
Code	Description
1	State funds were used in protecting this parcel.

Town of Yarmouth

Simple feature OS_ARC	class			Geometry <i>Polyline</i> Contains M values <i>No</i> Contains Z values <i>No</i>				Arcs that bound all OpenSpace and Chapter61 polygons	
Field name	Data type	Allow nulls	Default value	Domain	Prec- ision	Scale I	Length		
OBJECTID	Object ID								
Shape	Geometry	Yes							
CODE	Short integer	No	0	OS_Arc_Code	2			Feature arc is coincident with	
SOURCE_TYPE	String	No	X	OS_Source			10	Where the arc came from	
ARC_DATE	Date	Yes	1/1/1901		0	0	8	Date of last edit to arc geometry	
COMMENTS	String	Yes					100	Any further explanatory comment.	
DROPLINE	String	Yes					10	Symbolization code for dropping line within sites	
ARCSYM	String	No	В	OS_ArcSym			2	Field to query out OS or Ch61 arcs	
Shape_Length	Double	Yes			0	0			

Yes

String Double Double

Shape_Length

Feature arc is coincident with
Where the arc came from
Date of last edit to arc geometry
Any further explanatory comment.
Symbolization code for dropping line within sites
Field to query out OS or Ch61 arcs

Unique ID for feature class ([TOWN_ID]-[POLY_ID]).

Table OSNAMES						1
Field name	Data type	Allow nulls	Default value	Domain	Prec- ision Scale Lengt	h
OBJECTID	Object ID					1
AGENCY	String	Yes			100	п
ABBREV	String	Yes			8	П
DEPT	String	Yes			8	1
SFO	String	Yes		OS_Type	1	ı

Table listing all abbreviations used in OpenSpace used for populating attribute editing form.

Full text of enitity's name.
Abbreviation for entity.
Internal table reference between MANAGER & FEE_OWNER.
Code specifying the classification of entity.

The MassGIS Protected & Recreational OpenSpace DataLayer is owned and maintained by MassGIS. This schema was developed by MassGIS with the assistance of EOEA agency staff. Any questions should be forwarded to Scott Costello, MassGIS OpenSpace DBA [scott.costello@state.ma.us] (617)-626-1076.

State vs. Private Dispute

